

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.40	-1.40

=> file registry
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.98	165.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.40	-1.40

FILE 'REGISTRY' ENTERED AT 21:00:44 ON 23 NOV 2004
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STRUCTURE FILE UPDATES: 22 NOV 2004 HIGHEST RN 786612-66-6
DICTIONARY FILE UPDATES: 22 NOV 2004 HIGHEST RN 786612-66-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10038760e.str

L8 STRUCTURE UPLOADED

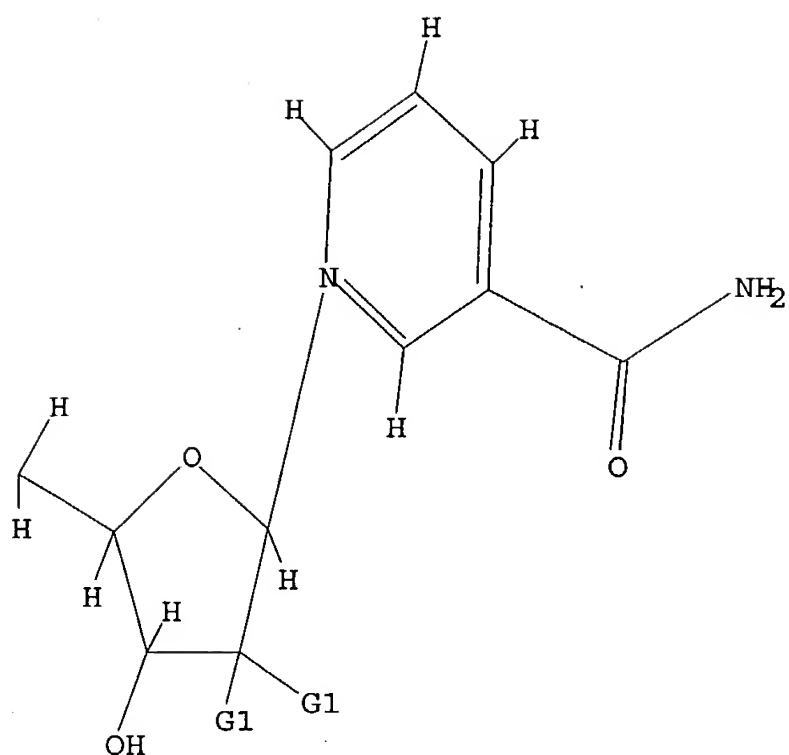
=> s l8 sam sss
SAMPLE SEARCH INITIATED 21:01:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 154 TO ITERATE

100.0% PROCESSED 154 ITERATIONS 29 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2336 TO 3824
PROJECTED ANSWERS: 257 TO 903

L9 29 SEA SSS SAM L8

=> d l8
L8 HAS NO ANSWERS
L8 STR



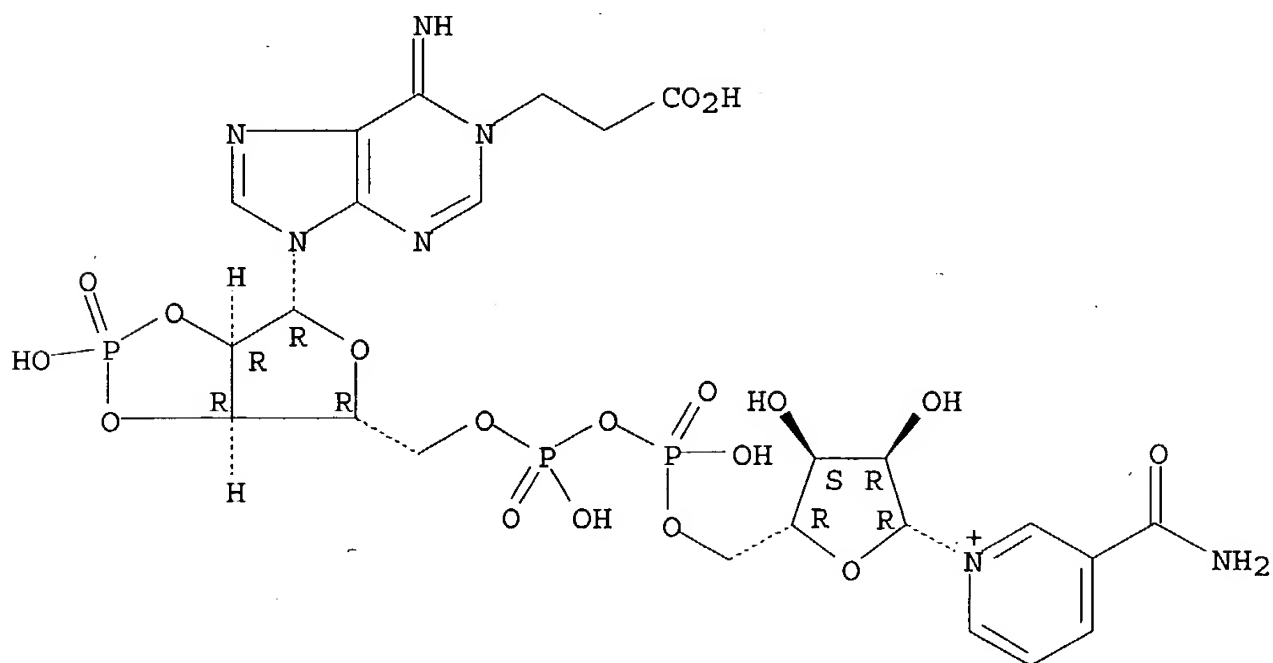
G1 H, SH, NH2, X

Structure attributes must be viewed using STN Express query preparation.

=> d 19

L9 ANSWER 1 OF 29 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 749166-89-0 REGISTRY
 CN Pyridinium, 3-(aminocarbonyl)-1-[5-O-[hydroxy(phosphonooxy)phosphinyl]-
 β-D-ribofuranosyl]-, P'→5'-ester with 6,9-dihydro-6-imino-9-
 (2,3-O-phosphinico-β-D-ribofuranosyl)-1H-purine-1-propanoic acid
 (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C24 H31 N7 O18 P3
 CI COM
 SR CA

Absolute stereochemistry.



=> s l8 full sss
FULL SEARCH INITIATED 21:03:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3610 TO ITERATE

100.0% PROCESSED 3610 ITERATIONS 659 ANSWERS
SEARCH TIME: 00.00.01

L10 659 SEA SSS FUL L8

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	158.87	324.86
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.40

FILE 'CAPLUS' ENTERED AT 21:03:42 ON 23 NOV 2004
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FILE COVERS 1907 - 23 Nov 2004 VOL 141 ISS 22
FILE LAST UPDATED: 22 Nov 2004 (20041122/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l10
L11 17995 L10

=> file registry		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.44	325.30
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.40

FILE 'REGISTRY' ENTERED AT 21:04:05 ON 23 NOV 2004
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STRUCTURE FILE UPDATES: 22 NOV 2004 HIGHEST RN 786612-66-6

DICTIONARY FILE UPDATES: 22 NOV 2004 HIGHEST RN 786612-66-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

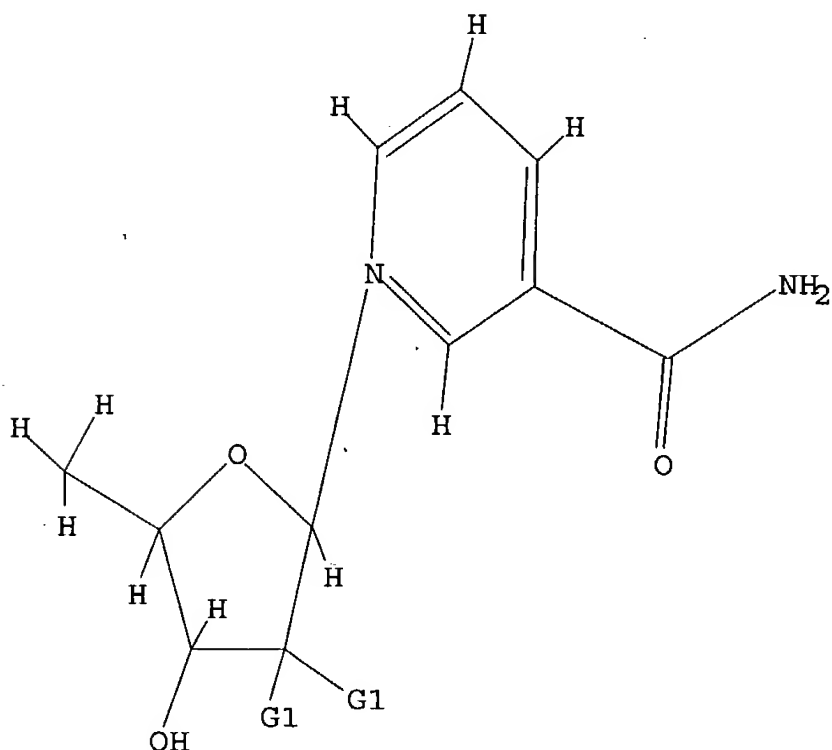
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10038760f.str

L12 STRUCTURE UPLOADED

=> d 12
L12 HAS NO ANSWERS
L12 STR



G1 H, SH, NH2, X

Structure attributes must be viewed using STN Express query preparation.

=> s l12 sam sss
SAMPLE SEARCH INITIATED 21:05:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 154 TO ITERATE

100.0% PROCESSED 154 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2336 TO 3824
PROJECTED ANSWERS: 0 TO 0

L13 0 SEA SSS SAM L12

=> s l12 full sss
FULL SEARCH INITIATED 21:05:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3610 TO ITERATE

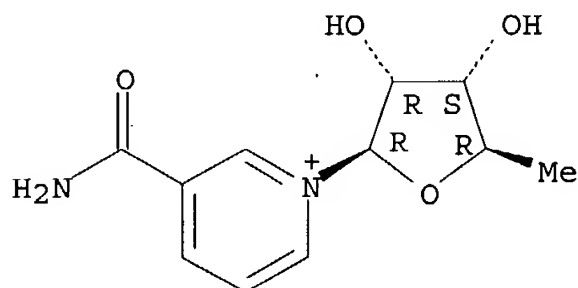
100.0% PROCESSED 3610 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L14 1 SEA SSS FUL L12

=> d l14

L14 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 691870-88-9 REGISTRY
CN Pyridinium, 3-(aminocarbonyl)-1-(5-deoxy-β-D-ribofuranosyl)- (9CI)
(CA INDEX NAME)
FS STEREOSEARCH
MF C11 H15 N2 O4
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	158.03	483.33
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.40

FILE 'CAPLUS' ENTERED AT 21:05:56 ON 23 NOV 2004
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FILE COVERS 1907 - 23 Nov 2004 VOL 141 ISS 22
FILE LAST UPDATED: 22 Nov 2004 (20041122/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l14

L15 1 L14

=> d l15 fbib abs

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN (2004:43894 CAPLUS
DN 140:423906
TI An exploratory ab initio conformational analysis of selected fragments of
nicotinamide adenine dinucleotide (NAD⁺). Part I: 5-deoxyribose
nicotinamide N-glycoside
AU Lau, Suzanne K.; Chass, Gregory A.; Lovas, Sandor; Penke, Botond;
Csizmadia, Imre G.
CS Department of Chemistry, University of Toronto, Toronto, ON, L5V 1H3, Can.
SO THEOCHEM (2003), 666-667, 415-429
CODEN: THEODJ; ISSN: 0166-1280
PB Elsevier Science B.V.
DT Journal
LA English
AB Ab initio MO computations were carried out on selected fragments of NAD
(NAD⁺) at the RHF/3-21G and RHF/6-31G(d) levels of theory. The focus of
this work was on the nicotinamide-ribose moiety. In this model study, the
ribose was replaced by 5-deoxyribose. Key points of examination included the
rotation of the carboxamide functionality, rotors between the
nicotinamide and ribose rings as well as ring puckering in the ribose
sugar. The structural definitions of the adenosine fragment and
diphosphate chain were defined herein, facilitating future theor.
investigation. A preliminary attempt was made to refine the results at
the elevated RHF/6-31G and RHF/6-31g(d) basis sets. The former showed
results in agreement with the RHF/3-21G data sets, whereas the inclusion
of preliminary polarization showed deviance in the χ_{11} dihedral of the
a[g-a] conformer.
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.87	487.20
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-2.10

FILE 'REGISTRY' ENTERED AT 21:07:55 ON 23 NOV 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 22 NOV 2004 HIGHEST RN 786612-66-6
DICTIONARY FILE UPDATES: 22 NOV 2004 HIGHEST RN 786612-66-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

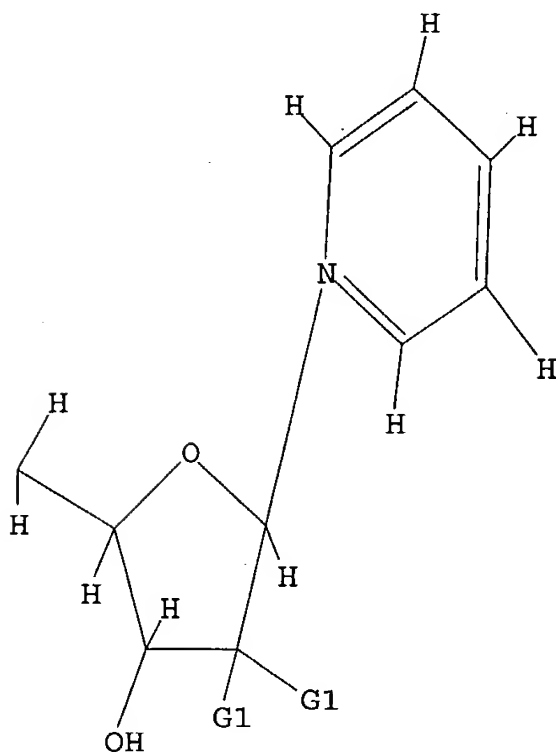
Uploading C:\Program Files\Stnexp\Queries\10038760g.str

L16 STRUCTURE UPLOADED

=> d l16

L16 HAS NO ANSWERS

L16 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l16 sss sam

SAMPLE SEARCH INITIATED 21:08:24 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 5237 TO ITERATE

19.1% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

1 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 100401 TO 109079

PROJECTED ANSWERS: 1 TO 241

L17 1 SEA SSS SAM L16

=> s l16 sss full

FULL SEARCH INITIATED 21:08:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 106418 TO ITERATE

100.0% PROCESSED 106418 ITERATIONS
SEARCH TIME: 00.00.01

26 ANSWERS

L18 26 SEA SSS FUL L16

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
155.42	642.62

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-2.10

CA SUBSCRIBER PRICE

FILE 'CAPLUS' ENTERED AT 21:08:39 ON 23 NOV 2004
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FILE COVERS 1907 - 23 Nov 2004 VOL 141 ISS 22
FILE LAST UPDATED: 22 Nov 2004 (20041122/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l18

L19 28 L18

=> d fbib hitstr l19

L19 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:971717 CAPLUS

DN 140:16932

TI Inhibitors of ADP-ribosyl transferases, cyclases, and hydrolases

IN Sauve, Anthony A.; Schramm, Vern L.

PA USA

SO U.S. Pat. Appl. Publ., 26 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT'1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003229033	A1	20031211	US 2002-158636	20020530
WO 2003101198	A1	20031211	WO 2003-US17284	20030530

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,

PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002-158636

A 20020530

OS MARPAT 140:16932

IT 444342-70-5P

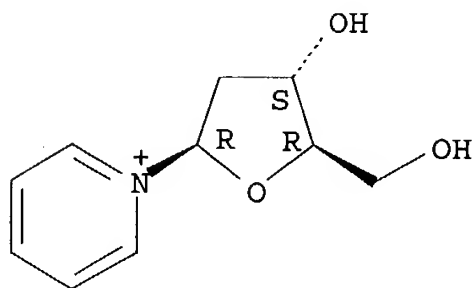
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(preparation of nucleoside analogs as inhibitors of ADP-ribosyl
 transferases, cyclases, and hydrolases)

RN 444342-70-5 CAPLUS

CN Pyridinium, 1-(2-deoxy-β-D-erythro-pentofuranosyl)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



=> d fbib hitstr 119 2-28

L19 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:665713 CAPLUS

DN 140:55377

TI Mammalian NADH diphosphatases of the Nudix family: cloning and
 characterization of the human peroxisomal NUDT12 protein

AU Abdelraheim, Salama R.; Spiller, David G.; McLennan, Alexander G.

CS School of Biological Sciences, Cell Regulation and Signalling Group,
 University of Liverpool, Liverpool, L69 7ZB, UK

SO Biochemical Journal (2003), 374(2), 329-335

CODEN: BIJOAK; ISSN: 0264-6021

PB Portland Press Ltd.

DT Journal

LA English

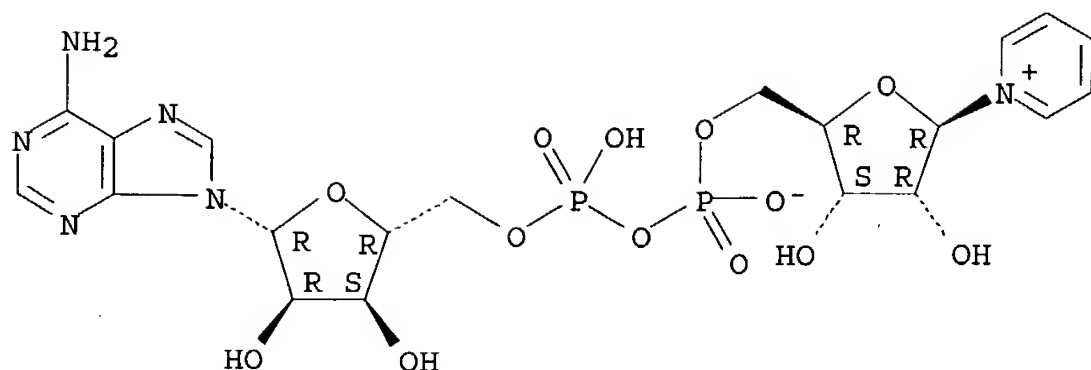
IT 606-71-3

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (cloning and characterization of human peroxisomal NAD diphosphatase
 NUDT12)

RN 606-71-3 CAPLUS

CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

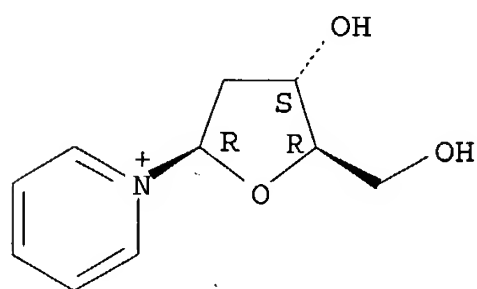


RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:575048 CAPLUS
DN 137:140731
TI Preparation of nucleoside analogs as inhibitors of ADP-ribosyl
transferases, cyclases, and hydrolases
IN Sauve, Anthony A.; Schramm, Vern L.
PA Albert Einstein College of Medicine of Yeshiva University, USA
SO PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

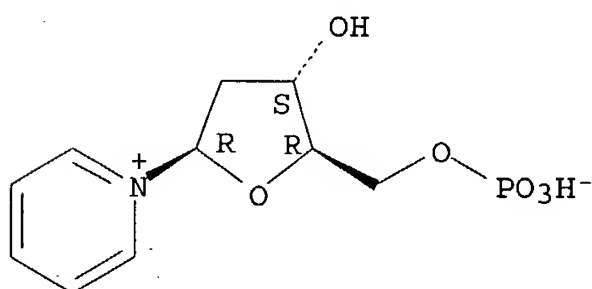
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002059084	A2	20020801	WO 2002-US371	20020104
WO 2002059084	A3	20031016		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2433840	AA	20020801	US 2001-259720P	P 20010104
			CA 2002-2433840	20020104
			US 2001-259720P	P 20010104
			WO 2002-US371	W 20020104
US 2002132783	A1	20020919	US 2002-38760	20020104
			US 2001-259720P	P 20010104
EP 1370139	A2	20031217	EP 2002-714706	20020104
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
			US 2001-259720P	P 20010104
			WO 2002-US371	W 20020104
OS	MARPAT 137:140731			
IT	444342-70-5P 444342-71-6P			
	RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)			
	(preparation of nucleoside analogs as inhibitors of ADP-ribosyl transferases, cyclases, and hydrolases)			
RN	444342-70-5 CAPLUS			
CN	Pyridinium, 1-(2-deoxy-β-D-erythro-pentofuranosyl) - (9CI) (CA INDEX NAME)			

Absolute stereochemistry.



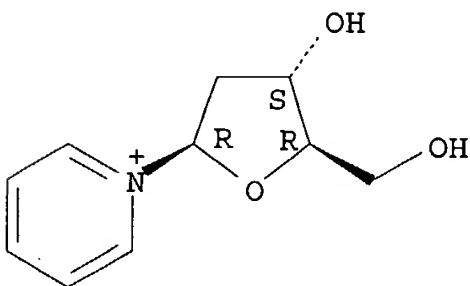
RN 444342-71-6 CAPLUS
CN Pyridinium, 1-(2-deoxy-5-O-phosphono- β -D-erythro-pentofuranosyl)-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



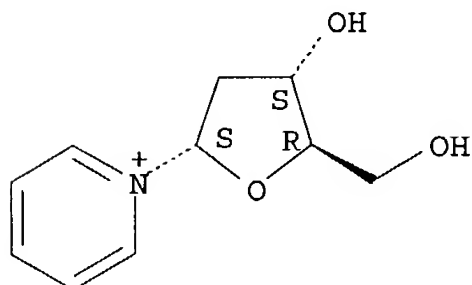
L19 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:426872 CAPLUS
DN 137:151677
TI Mechanism-Based Inhibitors of CD38: A Mammalian Cyclic ADP-Ribose Synthetase
AU Sauve, Anthony A.; Schramm, Vern L.
CS Department of Biochemistry, Albert Einstein College of Medicine, Bronx, NY, 10461, USA
SO Biochemistry (2002), 41(26), 8455-8463
CODEN: BICHAW; ISSN: 0006-2960
PB American Chemical Society
DT Journal
LA English
OS CASREACT 137:151677
IT **444342-70-5P**
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of mechanism-based inhibitors of CD38, a mammalian cyclic ADP-ribose synthetase)
RN 444342-70-5 CAPLUS
CN Pyridinium, 1-(2-deoxy- β -D-erythro-pentofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 445041-08-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of mechanism-based inhibitors of CD38, a mammalian cyclic
 ADP-ribose synthetase)
 RN 445041-08-7 CAPLUS
 CN Pyridinium, 1-(2-deoxy- α -D-erythro-pentofuranosyl)- (9CI) (CA INDEX
 NAME)

Absolute stereochemistry.



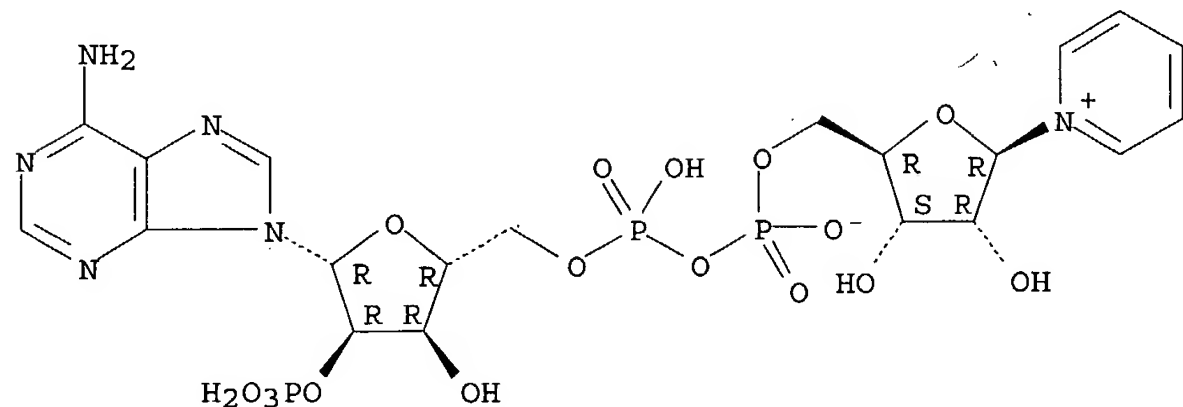
RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:801989 CAPLUS
 DN 128:72361
 TI Determination of phosphatase activity using deamido-NADP as substrate and
 compositions therefor
 IN Eto, Takashi; Takahashi, Mamoru
 PA Asahi Chemical Industry Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09322799	A2	19971216	JP 1996-141571	19960604
				JP 1996-141571	19960604

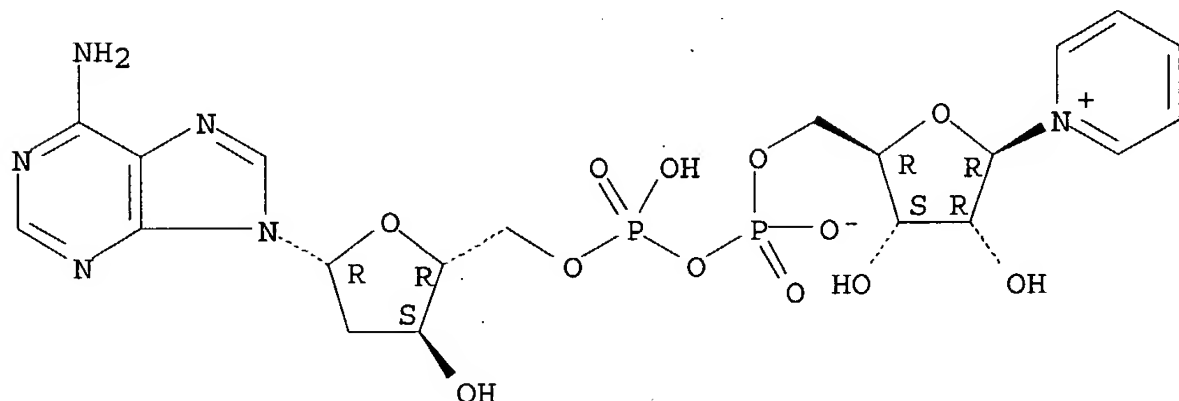
IT 200713-18-4
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
 (determination of phosphatase using deamido-NADP as substrate, NAD synthase,
 ATP, Mg/Mn, NH₄, and dehydrogenase and its substrate)
 RN 200713-18-4 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), 2'-(dihydrogen phosphate),
 P'→5'-ester with 1-β-D-ribofuranosylpyridinium, inner salt
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



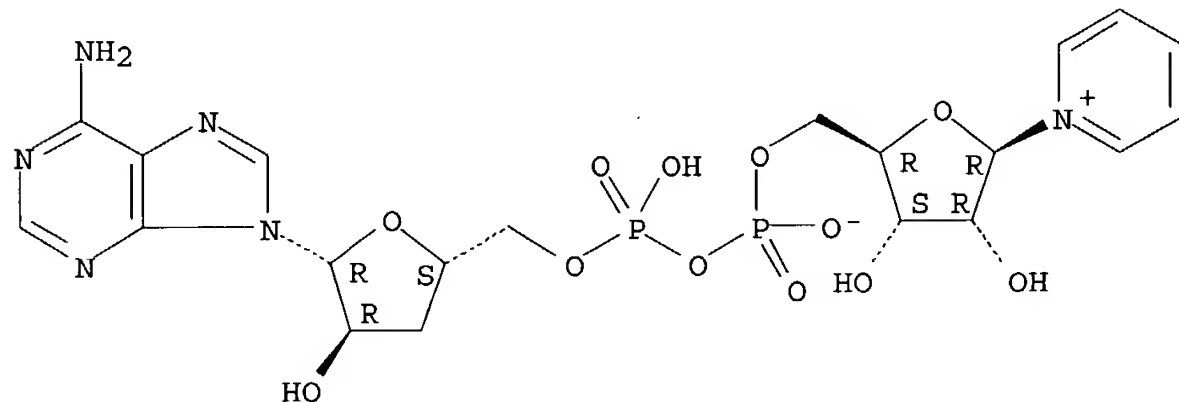
L19 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1995:672940 CAPLUS
 DN 123:340712
 TI Chemoenzymic synthesis of analogs of the second messenger candidate cyclic adenosine 5'-diphosphate ribose
 AU Ashamu, Gloria A.; Galione, Antony; Potter, Barry V. L.
 CS Dep. Med. Chem., Univ. Bath, Claverton Down, Bath, BA2 7AY, UK
 SO Journal of the Chemical Society, Chemical Communications (1995), (13), 1359-60
 CODEN: JCCCAT; ISSN: 0022-4936
 PB Royal Society of Chemistry
 DT Journal
 LA English
 IT 170869-39-3P, 2'-Deoxy- β -NAD⁺ 170869-40-6P, 3'-Deoxy- β -NAD⁺ 170869-41-7P, 8-Amino- β -NAD⁺ 170869-42-8P, 8-Piperidino- β -NAD⁺ 170869-43-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (chemoenzymic preparation and calcium-releasing activity of cyclic ADP ribose analogs)
 RN 170869-39-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), 2'-deoxy-, P'→5'-ester with 1- β -D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



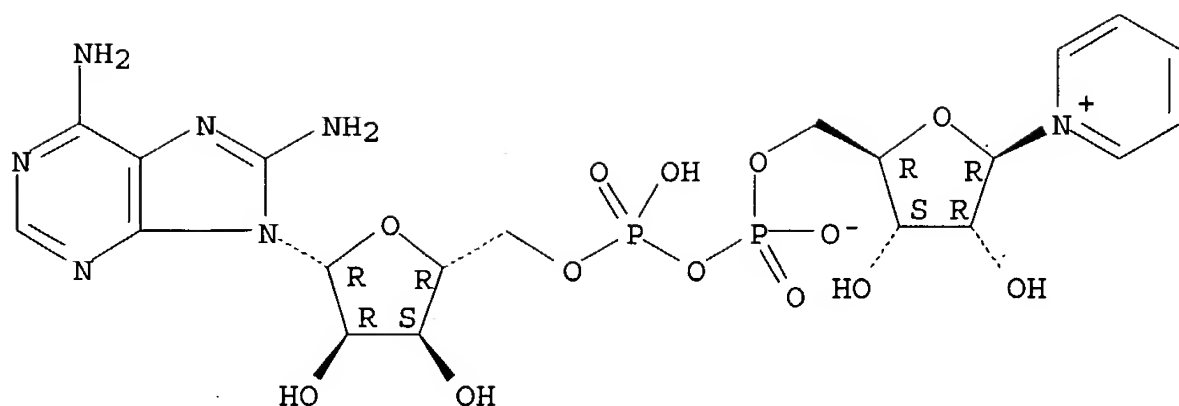
RN 170869-40-6 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), 3'-deoxy-, P'→5'-ester with 1- β -D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



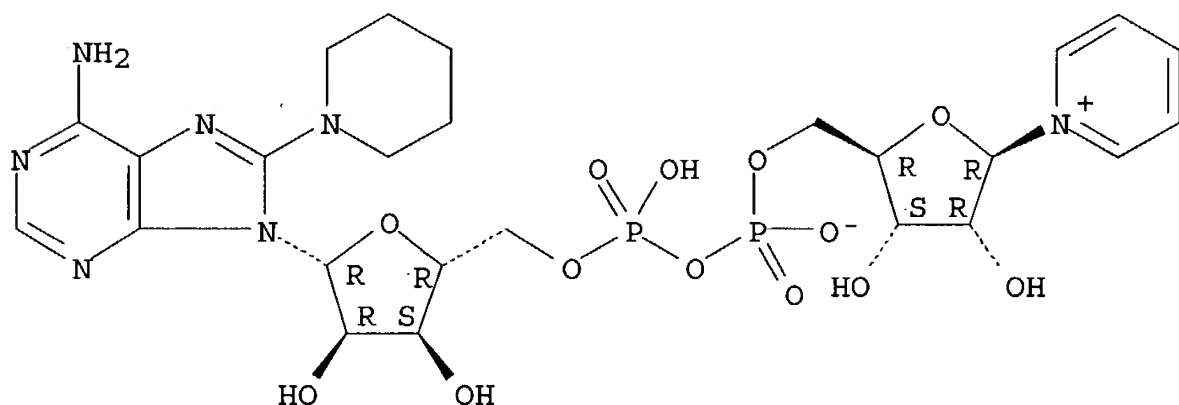
RN 170869-41-7 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), 8-amino-, P'→5'-ester with 1- β -D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

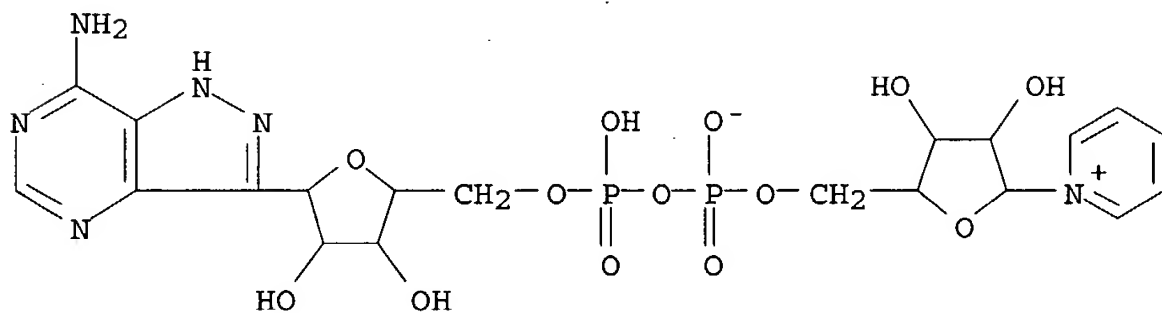


RN 170869-42-8 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), 8-(1-piperidinyl)-,
 P'→5'-ester with 1-β-D-ribofuranosylpyridinium, inner salt
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 170869-43-9 CAPLUS
 CN D-Ribitol, 1-C-(7-amino-1H-pyrazolo[4,3-d]pyrimidin-3-yl)-1,4-dihydro-,
 5-(trihydrogen diphosphate), P'→5'-ester with 1-β-D-
 ribofuranosylpyridinium, inner salt, (1S)- (9CI) (CA INDEX NAME)



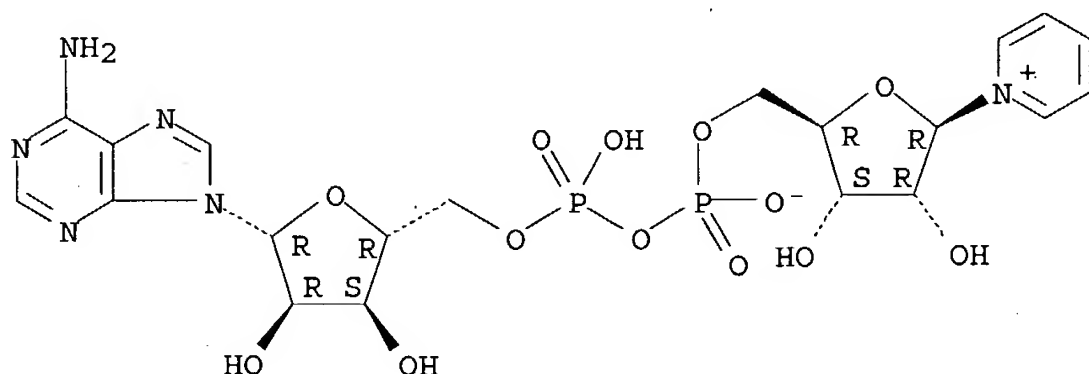
L19 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1989:227592 CAPLUS
 DN 110:227592
 TI Site-directed inhibition of Haemophilus influenzae malate dehydrogenase
 AU Yoon, Heejeong; Anderson, Bruce M.
 CS Dep. Biochem. Nutr., Virginia Polytech. Inst. and State Univ., Blacksburg,
 VA, 24061, USA
 SO Journal of General Microbiology (1989), 135(2), 245-50
 CODEN: JGMIAN; ISSN: 0022-1287
 DT Journal
 LA English
 IT 606-71-3
 RL: BIOL (Biological study)

(malate dehydrogenase of Haemophilus influenzae inhibition by, kinetics of, inhibitor structure in relation to)

RN 606-71-3 CAPLUS

CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1989:213255 CAPLUS

DN 110:213255

TI Synthesis of conjugates of 11α-hydroxyprogesterone with β-nicotinamide adenine dinucleotide (β-NAD) and adenosine triphosphate (ATP)

AU Kirk, David N.; Miller, Barry W.

CS Chem. Dep., Queen Mary Coll., London, E1 4NS, UK

SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1988), (11), 2983-92
CODEN: JCPRB4; ISSN: 0300-922X

DT Journal

LA English

OS CASREACT 110:213255

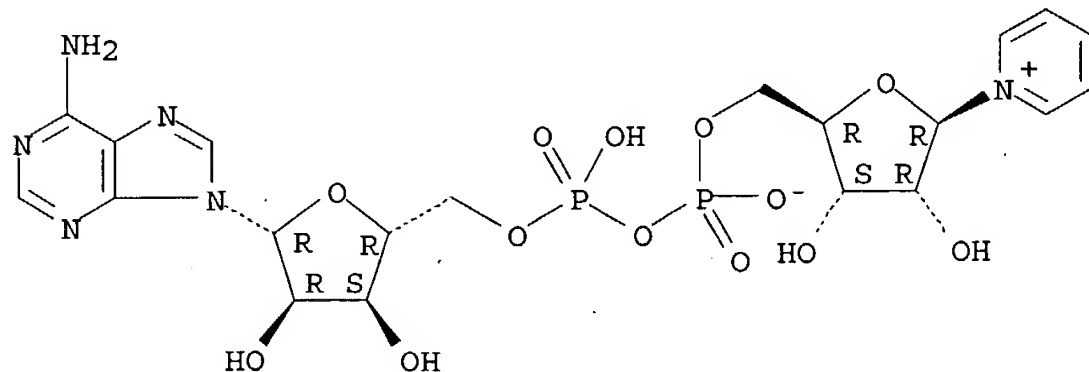
IT 606-71-3

RL: RCT (Reactant); RACT (Reactant or reagent)
(bromination of)

RN 606-71-3 CAPLUS

CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

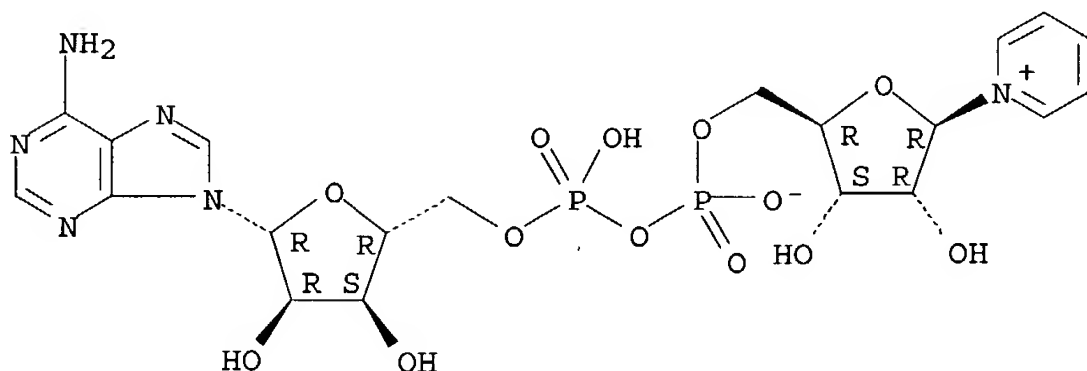
AN 1988:566251 CAPLUS

DN 109:166251

TI Molecular mechanics calculation of geometries of NAD+ derivatives, modified in the nicotinamide group, in a ternary complex with horse liver

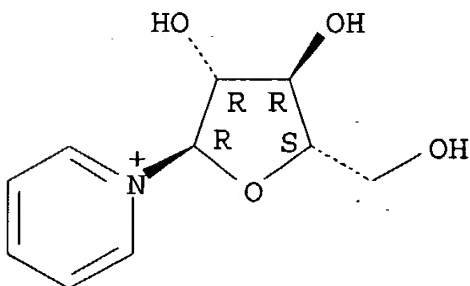
alcohol dehydrogenase
 AU De Kok, Peter M. T.; Beijer, Nicoline A.; Buck, Henk M.; Sluyterman, Lamoraal A. A.; Meijer, Emmo M.
 CS Dep. Org. Chem., Eindhoven Univ. Technol., Eindhoven, NL-5600 MB, Neth.
 SO European Journal of Biochemistry (1988), 175(3), 581-5
 CODEN: EJBCAI; ISSN: 0014-2956
 DT Journal
 LA English
 IT 606-71-3, Pyridine-adenine dinucleotide
 RL: PRP (Properties)
 (conformational energy of, in alc. dehydrogenase active site)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1987:511629 CAPLUS
 DN 107:111629
 TI Purification and mechanistic properties of an extracellular α-L-arabinofuranosidase from Monilinia fructigena
 AU Kelly, Migel A.; Sinnott, Michael L.; Herrchen, Monika
 CS Dep. Org. Chem., Univ. Bristol, Bristol, BS8 1TS, UK
 SO Biochemical Journal (1987), 245(3), 843-9
 CODEN: BIJOAK; ISSN: 0306-3275
 DT Journal
 LA English
 IT 110115-90-7
 RL: BIOL (Biological study)
 (α-arabinofuranosidase of Monilinia fructigena inhibition by, kinetics of)
 RN 110115-90-7 CAPLUS
 CN Pyridinium, 1-α-L-arabinofuranosyl- (9CI) (CA INDEX NAME)

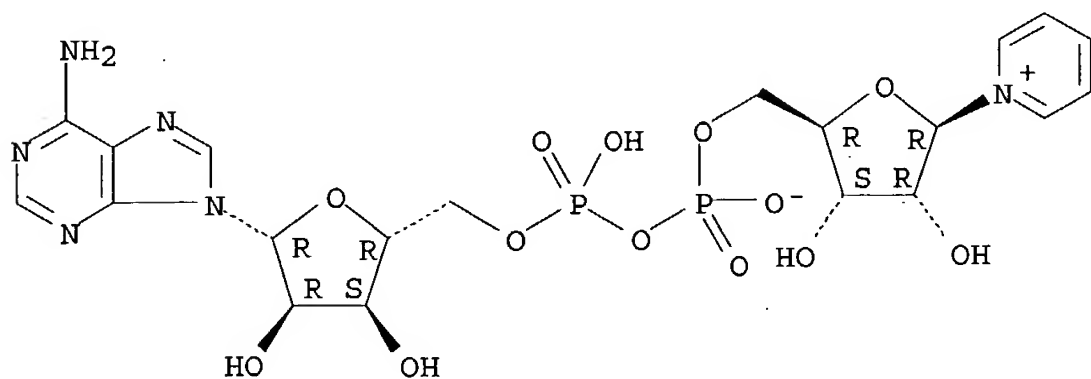
Absolute stereochemistry.



L19 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1987:435612 CAPLUS

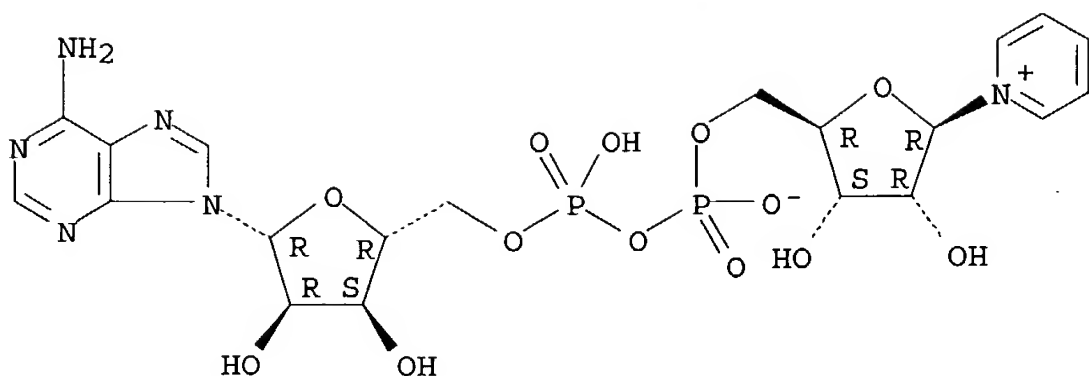
DN 107:35612
 TI Application of linear free-energy relationships to the mechanistic probing of nonenzymic and NAD⁺-glycohydrolase-catalyzed hydrolysis of pyridine dinucleotides
 AU Tarnus, Celine; Schuber, Francis
 CS Lab. Chim. Enzym., Inst. Bot., Strasbourg, 67000, Fr.
 SO Bioorganic Chemistry (1987), 15(1), 31-42
 CODEN: BOCMBM; ISSN: 0045-2068
 DT Journal
 LA English
 IT 606-71-3, Pyridine adenine dinucleotide
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (hydrolysis of, nonenzymic and by NAD glycohydrolase, mechanism of)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



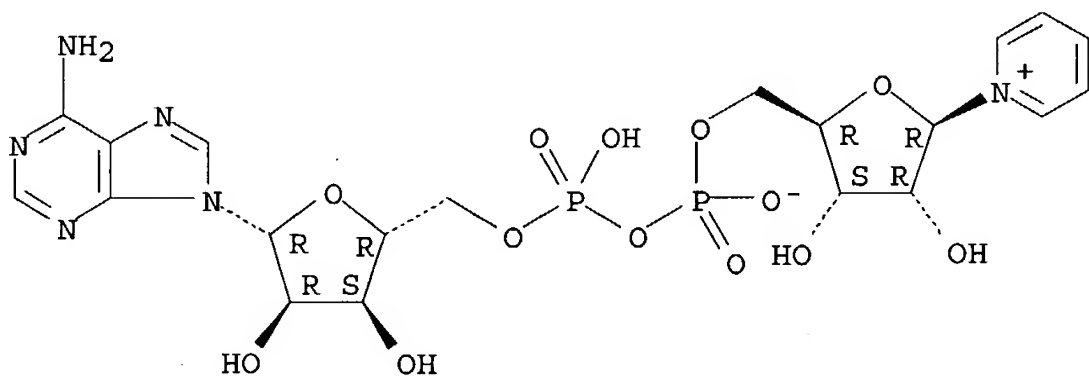
L19 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1986:420818 CAPLUS
 DN 105:20818
 TI Characterization of Haemophilus influenzae nucleotide pyrophosphatase. An enzyme of critical importance for growth of the organism
 AU Kahn, David W.; Anderson, Bruce M.
 CS Dep. Biochem. Nutr., Virginia Polytech. Inst. and State Univ., Blacksburg, VA, 24061, USA
 SO Journal of Biological Chemistry (1986), 261(13), 6016-25
 CODEN: JBCHA3; ISSN: 0021-9258
 DT Journal
 LA English
 IT 606-71-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with nucleotide pyrophosphatase of Haemophilus influenzae, kinetics of, bacterial growth in relation to)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



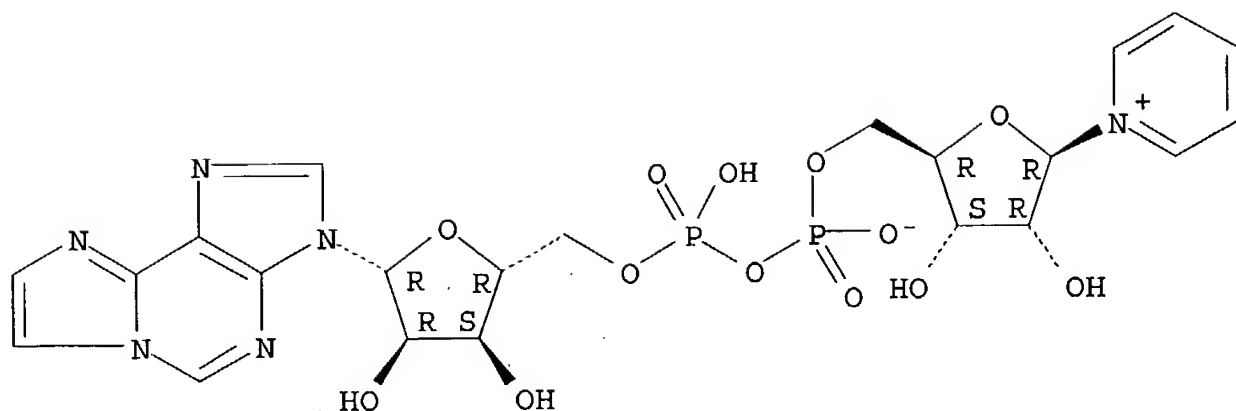
L19 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1985:58150 CAPLUS
 DN 102:58150
 TI Preparation of analogs of NAD⁺ as substrates for a sensitive fluorimetric assay of nucleotide pyrophosphatase
 AU Muller, Christian D.; Tarnus, Celine; Schuber, Francis
 CS Inst. Bot., Univ. Louis Pasteur, Strasbourg, F-67000, Fr.
 SO Biochemical Journal (1984), 223(3), 715-21
 CODEN: BIJOAK; ISSN: 0306-3275
 DT Journal
 LA English
 IT 606-71-3
 RL: PRP (Properties)
 (NMR of)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



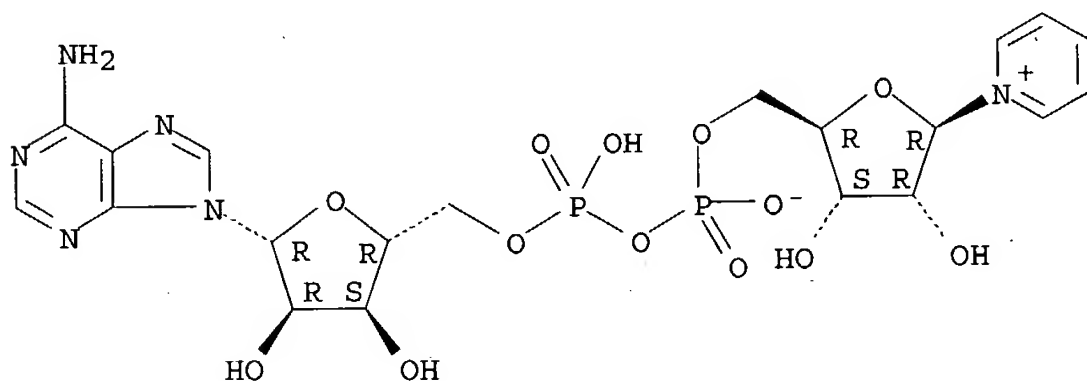
IT 94516-25-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and use as substrate for nucleotide pyrophosphatase
 fluorometric determination)
 RN 94516-25-3 CAPLUS
 CN Pyridinium, 1-[5-O-[hydroxy(phosphonooxy)phosphinyl]-β-D-ribofuranosyl]-, P'→5'-ester with 3-β-D-ribofuranosyl-3H-imidazo[2,1-i]purine, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1983:194387 CAPLUS
 DN 98:194387
 TI Thin-layer chromatographic separation of intermediates of the pyridine nucleotide cycle
 AU Heard, John T., Jr.
 CS Dep. Microbiol. Immunol., Kirksville Coll. Osteopathic Med., Kirksville, MO, 63501, USA
 SO Analytical Biochemistry (1983), 130(1), 185-8
 CODEN: ANBCA2; ISSN: 0003-2697
 DT Journal
 LA English
 IT 606-71-3
 RL: ANT (Analyte); ANST (Analytical study)
 (detection of, in Paramecium salvage pathway by thin-layer chromatog.)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

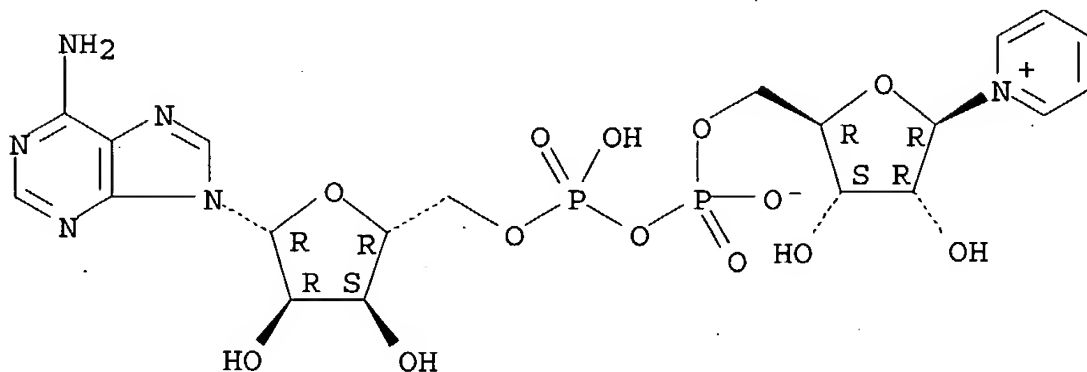
Absolute stereochemistry.



L19 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1983:175454 CAPLUS
 DN 98:175454
 TI Adenosine diphosphoribose transfer reactions catalyzed by Bungarus fasciatus venom NAD glycohydrolase
 AU Yost, David A.; Anderson, Bruce M.
 CS Dep. Biochem. Nutr., Virginia Polytech. Inst. and State Univ., Blacksburg, VA, 24061, USA
 SO Journal of Biological Chemistry (1983), 258(5), 3075-80
 CODEN: JBCHA3; ISSN: 0021-9258
 DT Journal
 LA English
 IT 606-71-3
 RL: FORM (Formation, nonpreparative)
 (formation of, with NAD glycohydrolase)

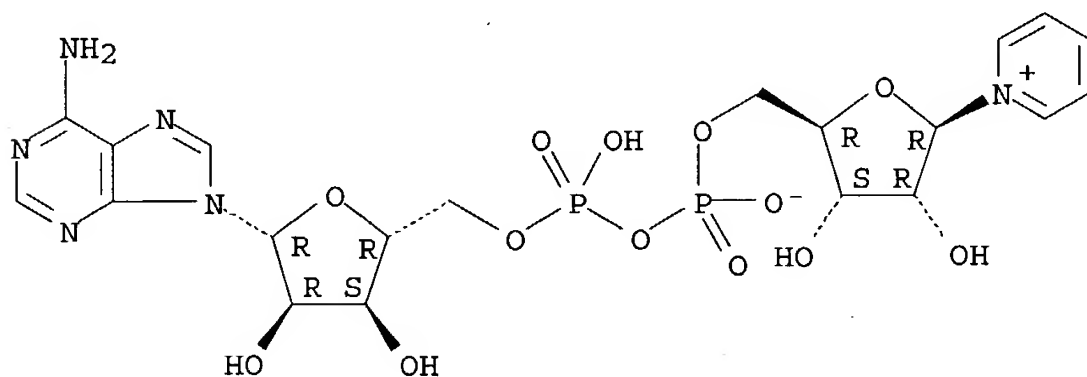
RN 606-71-3 CAPLUS
CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1983:104049 CAPLUS
DN 98:104049
TI Isoniazid perturbation of the pyridine nucleotide cycle of Escherichia coli
AU Heard, John T., Jr.; Tritz, Gerald J.
CS Dep. Microbiol. Immunol., Kirksville Coll. Osteopath. Med., Kirksville, MO, 63501, USA
SO Microbios (1982), 35(141-142), 169-78
CODEN: MCBIA7; ISSN: 0026-2633
DT Journal
LA English
IT 606-71-3
RL: BIOL (Biological study)
(isoniazid resistance effect on, of Escherichia coli)
RN 606-71-3 CAPLUS
CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1982:64645 CAPLUS
DN 96:64645
TI Studies of Bungarus fasciatus venom NAD glycohydrolase. Inhibition, modification and transglycosidation reactions
AU Yost, David A.; Anderson, Bruce M.
CS Dep. Biochem. Nutr., Virginia Polytech. Inst. and State Univ., Blacksburg, VA, 24061, USA
SO Journal of Biological Chemistry (1981), 257(2), 767-72

CODEN: JBCHA3; ISSN: 0021-9258

DT Journal

LA English

IT 606-71-3

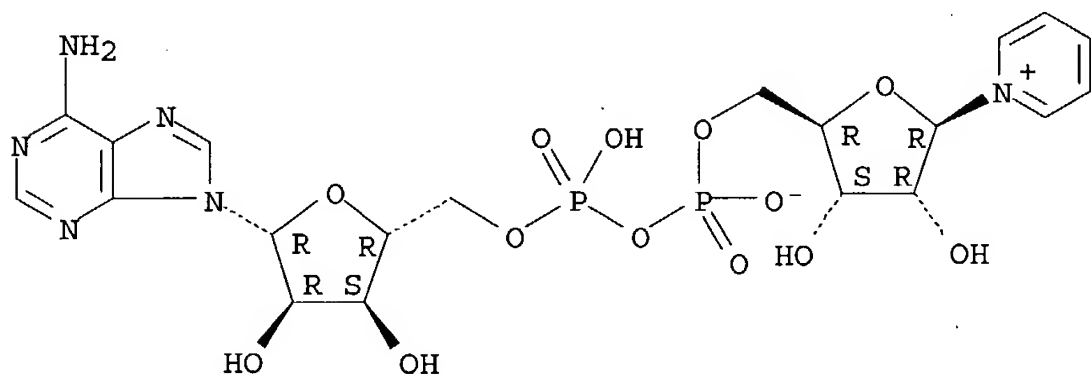
RL: BIOL (Biological study)

(NAD glycohydrolase inhibition by, kinetics of)

RN 606-71-3 CAPLUS

CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1982:2897 CAPLUS

DN 96:2897

TI An investigation of the active site of lactate dehydrogenase with NAD⁺ analogs

AU Samama, Jean Pierre; Marchal-Rosenheimer, Nicole; Biellmann, Jean Francois; Rossmann, Michael G.

CS Inst. Chim., Univ. Louis Pasteur, Strasbourg, Fr.

SO European Journal of Biochemistry (1981), 120(3), 563-9

CODEN: EJBCAI; ISSN: 0014-2956

DT Journal

LA English

IT 606-71-3

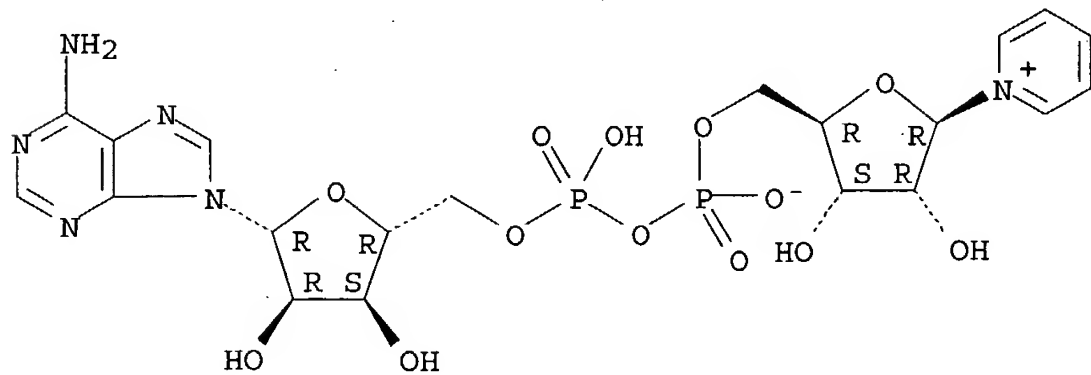
RL: BIOL (Biological study)

(lactate dehydrogenase isoenzyme inhibition by, kinetics of)

RN 606-71-3 CAPLUS

CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



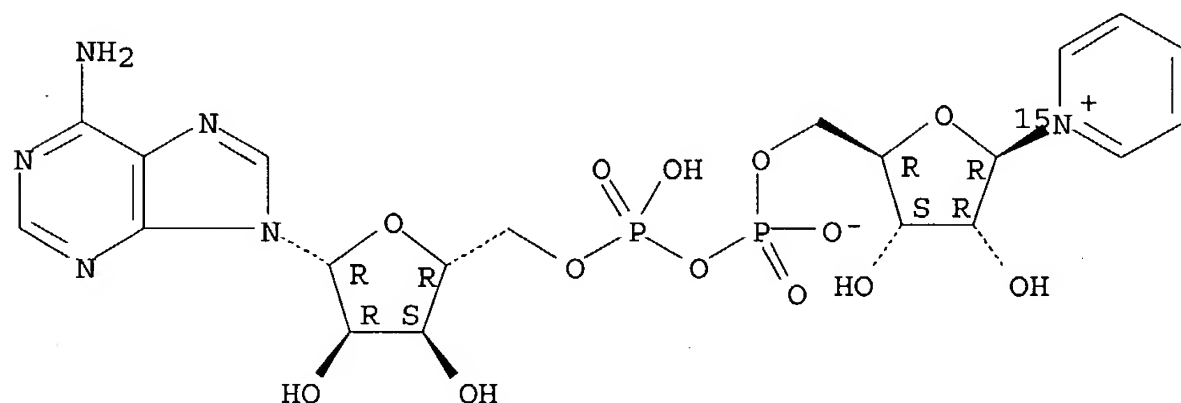
L19 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1981:187685 CAPLUS

DN 94:187685

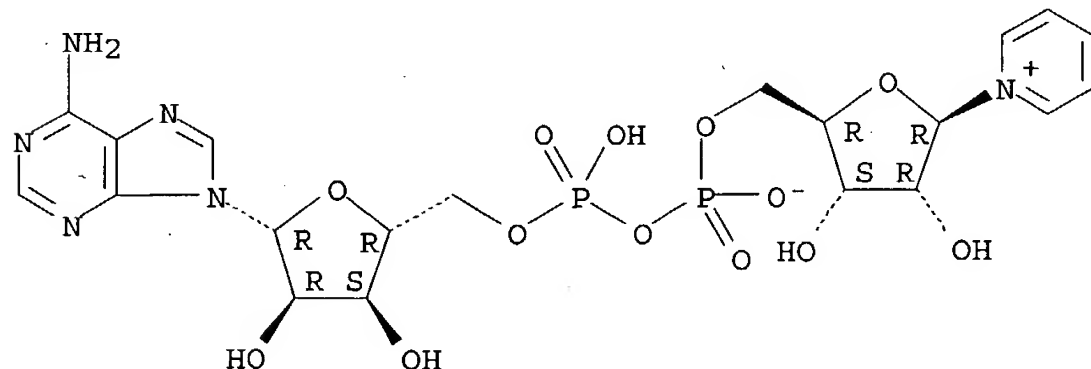
TI Secondary deuterium and nitrogen-15 isotope effects in enzyme-catalyzed reactions. Chemical mechanism of liver alcohol dehydrogenase
 AU Cook, Paul F.; Oppenheimer, Norman J.; Cleland, W. W.
 CS Dep. Biochem., Univ. Wisconsin, Madison, WI, 53706, USA
 SO Biochemistry (1981), 20(7), 1817-25
 CODEN: BICHAW; ISSN: 0006-2960
 DT Journal
 LA English
 IT **76849-13-3**
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, with alc. dehydrogenase, kinetics of, isotope effects on)
 RN 76849-13-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
 1-β-D-ribofuranosylpyridinium-15N, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



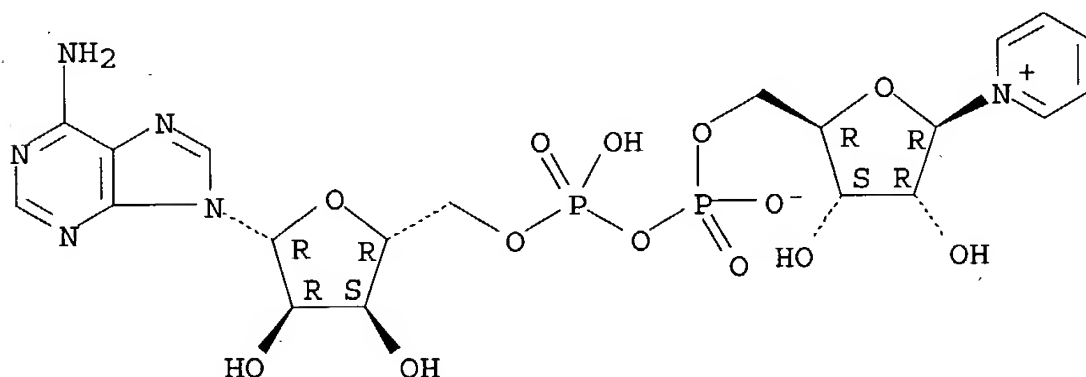
L19 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1979:434827 CAPLUS
 DN 91:34827
 TI On the mechanism of action of calf spleen NAD+ glycohydrolase
 AU Schuber, Francis; Travo, Pierre; Pascal, Marc
 CS Inst. Bot., Univ. Louis Pasteur, Strasbourg, 67000, Fr.
 SO Bioorganic Chemistry (1979), 8(1), 83-90
 CODEN: BOCMBM; ISSN: 0045-2068
 DT Journal
 LA English
 IT **606-71-3**
 RL: BIOL (Biological study)
 (NAD glycohydrolase inhibition by, kinetics and mechanism of)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



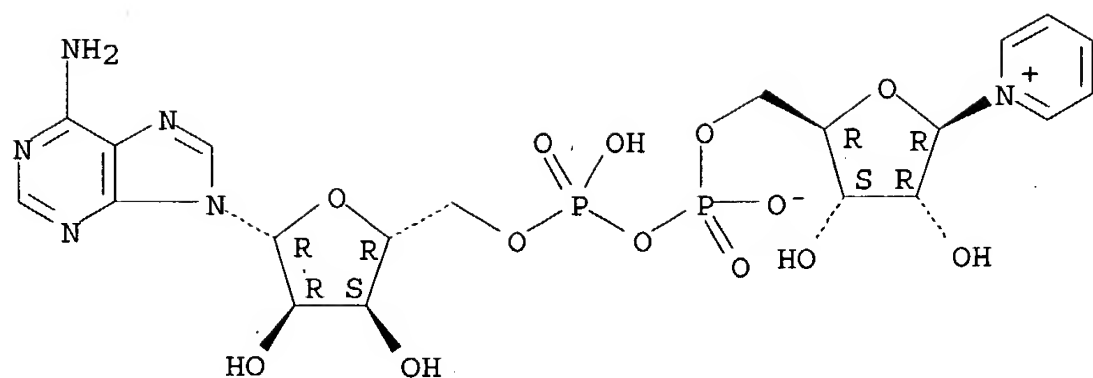
L19 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1978:593304 CAPLUS
 DN 89:193304
 TI Identification and quantification of niacin compounds in hog liver and kidney
 AU Taguchi, Hiroshi; Takamizawa, Hiroshi; Muto, Masako; Shimabayashi, Yoshihide; Iwai, Kazuo
 CS Fac. Agric., Mie Univ., Tsu, Japan
 SO Bitamin (1978), 52(8), 363-70
 CODEN: BTMNA7; ISSN: 0042-7462
 DT Journal
 LA Japanese
 IT 606-71-3
 RL: ANT (Analyte); ANST (Analytical study)
 (determination of, in hog liver and kidney, by paper chromatog.-microbiol. assay)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



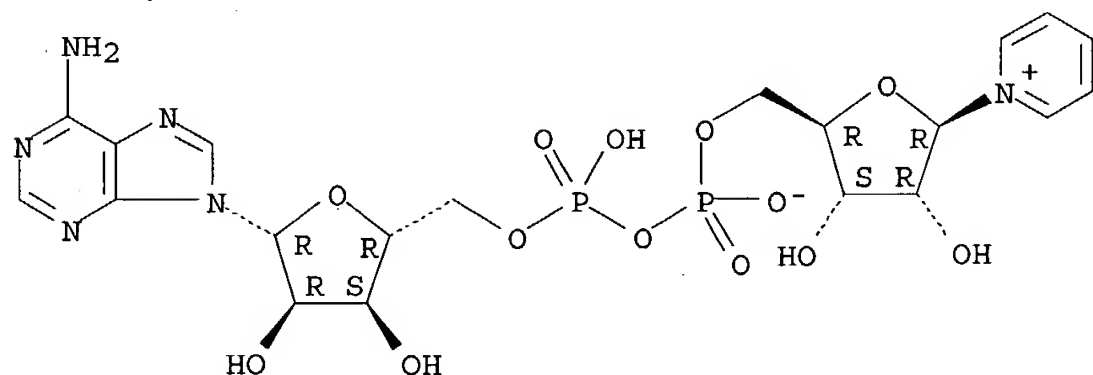
L19 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1978:33786 CAPLUS
 DN 88:33786
 TI The crystal structure of complexes between horse liver alcohol dehydrogenase and the coenzyme analogs 3-iodopyridine-adenine dinucleotide and pyridine-adenine dinucleotide
 AU Samama, Jean Pierre; Zeppezauer, Eila; Biellmann, Jean Francois; Branden, Carl Ivar
 CS Dep. Chem., Agric. Coll. Sweden, Uppsala, Swed.
 SO European Journal of Biochemistry (1977), 81(2), 403-9
 CODEN: EJBCAI; ISSN: 0014-2956
 DT Journal
 LA English
 IT 606-71-3
 RL: BIOL (Biological study)
 (as alc. dehydrogenase coenzyme)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1977:528766 CAPLUS
 DN 87:128766
 TI The effects of nonphysiological compounds on metabolism. IV.
 Nicotinylamino acid esters and nucleoside derivatives
 AU Riemschneider, R.; Pehlmann, H.
 CS Inst. Biochem., Freie Univ., Berlin, Fed. Rep. Ger.
 SO Bochu Kagaku (1976), 41(3), 99-106
 CODEN: BOCKAF; ISSN: 0006-5420
 DT Journal
 LA German
 IT 606-71-3
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (insect metamorphosis inhibiting activity of)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

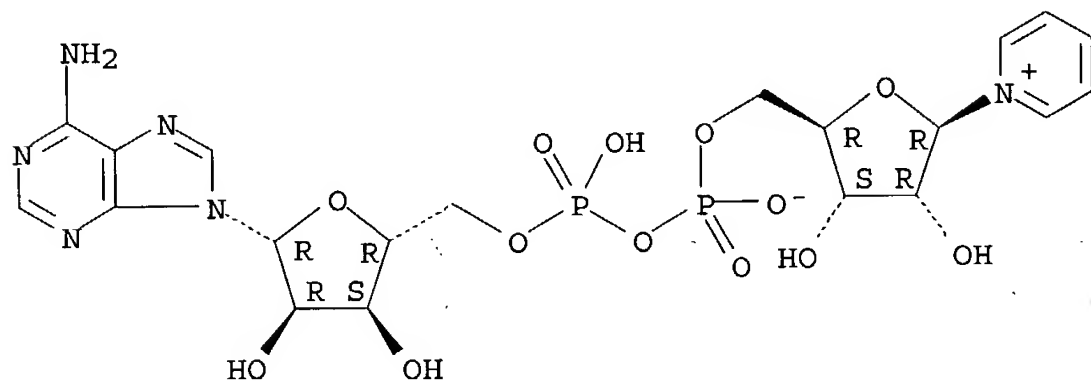
Absolute stereochemistry.



L19 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1976:85790 CAPLUS
 DN 84:85790
 TI Nuclear magnetic resonance studies on pyridine dinucleotides. III. The
 pH dependence of the carbon-13 nuclear magnetic resonance of NAD+ analogs
 AU Williams, Taffy J.; Zens, A. P.; Wisowaty, James C.; Fisher, Ronald R.;
 Dunlap, R. Bruce; Bryson, Thomas A.; Ellis, Paul D.
 CS Dep. Chem., Univ. South Carolina, Columbia, SC, USA
 SO Archives of Biochemistry and Biophysics (1976), 172(2), 490-501
 CODEN: ABBIA4; ISSN: 0003-9861
 DT Journal
 LA English
 IT 606-71-3
 RL: PRP (Properties)
 (conformation of, carbon-13 NMR in relation to)

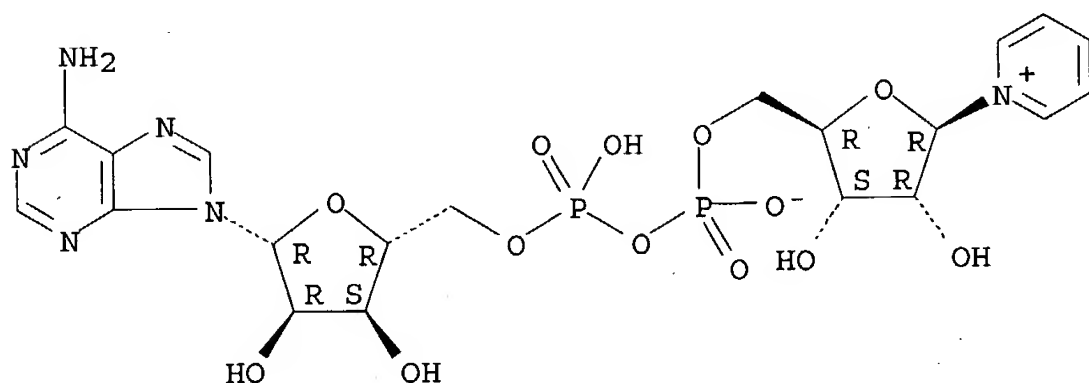
RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1975:510517 CAPLUS
 DN 83:110517
 TI Study of coenzyme binding site of octopine dehydrogenase using analogs of
 NAD
 AU Olomucki, Anna; Thome-Beau, Francoise; Biellmann, Jean F.; Branlant, Guy
 CS Lab. Biochim. Cellulaire, Coll. France, Paris, Fr.
 SO European Journal of Biochemistry (1975), 56(1), 109-16
 CODEN: EJBCAI; ISSN: 0014-2956
 DT Journal
 LA English
 IT 606-71-3
 RL: PROC (Process)
 (octopine dehydrogenase binding of)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

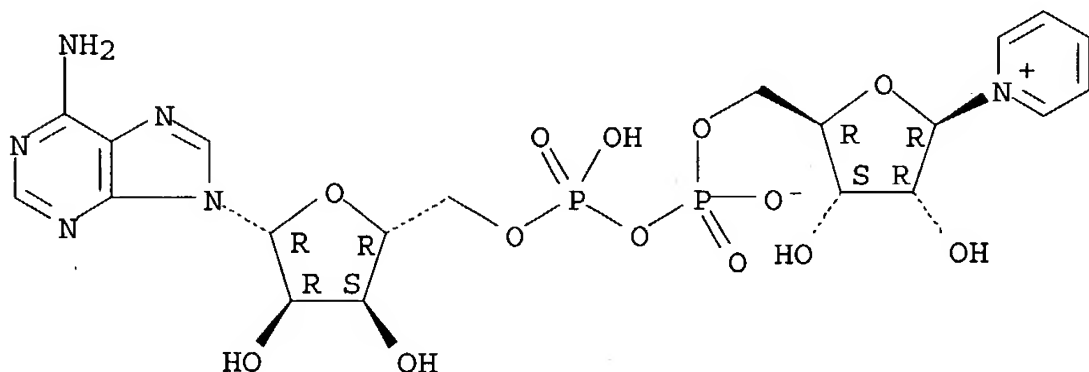
Absolute stereochemistry.



L19 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1973:69507 CAPLUS
 DN 78:69507
 TI Pyridinium precursors of pyridine nucleotides in perfused rat kidney and
 in the testis
 AU Lin, Leu-Fen Hou; Henderson, LaVell M.
 CS Coll. Biol. Sci., Univ. Minnesota, St. Paul, MN, USA
 SO Journal of Biological Chemistry (1972), 247(24), 8023-30
 CODEN: JBCHA3; ISSN: 0021-9258
 DT Journal

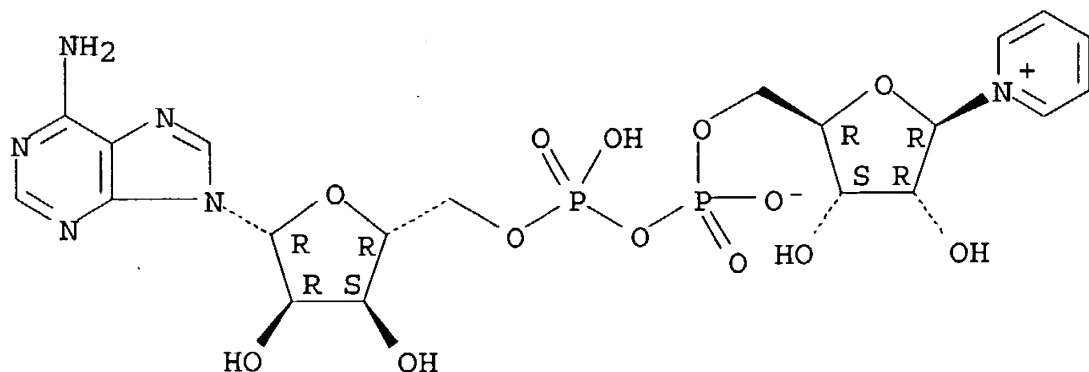
LA English
 IT 606-71-3
 RL: FORM (Formation, nonpreparative)
 (formation of, from nicotinamide and nicotinic acid by kidneys and testes)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L19 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1971:135586 CAPLUS
 DN 74:135586
 TI Mechanism of the alcohol dehydrogenases from yeast and horse liver
 AU Biellmann, Jean F.; Jung, Michel J.
 CS Lab. Cent. Rech. Sci., Inst. Chim., Strasbourg, Fr.
 SO European Journal of Biochemistry (1971), 19(1), 130-4
 CODEN: EJBCAI; ISSN: 0014-2956
 DT Journal
 LA English
 IT 606-71-3
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (alc. dehydrogenase inhibition by, kinetics of)
 RN 606-71-3 CAPLUS
 CN Adenosine 5'-(trihydrogen diphosphate), P'→5'-ester with
 1-β-D-ribofuranosylpyridinium, inner salt (9CI) (CA INDEX NAME)

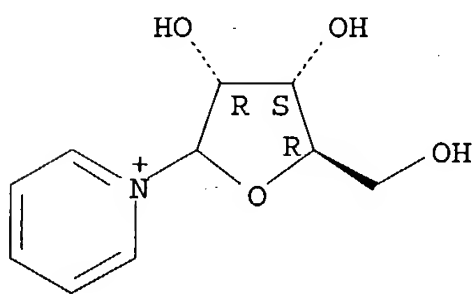
Absolute stereochemistry.



L19 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1965:51964 CAPLUS
 DN 62:51964
 OREF 62:9220b-c

TI Synthesis of glycosylpyridinium compounds from glycosylamines and from glycosyl halides
 AU Atkinson, M. R.; Morton, R. K.; Naylor, R.
 CS Univ. Adelaide
 SO Journal of the Chemical Society, Abstracts (1965), (Jan.), 610-15
 CODEN: JCSAAZ; ISSN: 0590-9791
 DT Journal
 LA English
 IT 3255-97-8, Pyridinium, 1-D-ribofuranosyl-, chloride
 (preparation of)
 RN 3255-97-8 CAPLUS
 CN Pyridinium, 1-D-ribofuranosyl-, chloride (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry.



● Cl⁻